VS INFRA DESIGN

VS Infra Design doo
Broj: 09-01
Datum: 12.11 2019 god.
Beograd-Novi Beograd

"China Railway Design Corporation"- Serbia

Ogranak Beograd, Srbija

Koste Racina 16 B, Beograd

OFFER

for road, bridge and supporting structures design for Hungarian-Serbian Railway Connection of the Territory of Serbia, for Section Novi Sad –Subotica- State Border (Kelebija)

Dear Sir,

In accordance with your request and scope of work, we are submiting to You the requested offer.

The following items are included in the offer:

- Design for construction permit,
- Design for execution of works,
- Assistance during the process of getting approvals.
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According to RFP Document, scope of work is following:

1、Railway Bridge Design

There are 26 railway bridges, underpasses and galleries altogether which includes as follows:

(1) 1 Super major bridge with total length of 1465.75m, the structural type of the bridge is simply supported T-beam and simply supported steel truss with the longest span of 49.7m.

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(2) 3 major bridges with total length of 792.93m, the structural type of the bridges is continuous steel truss or simply supported composite beam with the longest span of 82.8m (continuous steel truss).

(3) 4 medium bridges with total length of 189.95m, the structural type of the bridges is skeleton reinforced concrete continuous beam or rigid frame or steel truss with the longest span of 63m (steel truss).

(4) 13 frame structure bridges with total length of 196.43m and the longest span of 12.11m.

(5) 5 Galleries with total length of 318.94m, the structural type of the bridges is rigid frame with the longest span of 11.79m.

2、Road Design

There are 41 roads (underpass or overpass, for overpass includes the road bridge) need to be newly built or reconstructed and 3 animal channels with the total length of 30184.79m. Among which there are 25 major bridges with total area of 36749.395m^2 and 2 medium bridges with total area of 793.615m^2, the total length of the bridges is 3826.19m with the longest span of 36m, other lengths of span are 23.2m, 19.1m, 17.1m, 14.1m and 13.1m. 15 retaining walls and U-shape groove structures with total length of 2086.54m along the roads, 2 existing bridges need to be dismantled.

The scope of work for road design includes the traffic management during construction.

3、Supporting Structures Design

There are 4 supporting structures along the railway main line and branch line, the detailed information is listed as below.

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SN	length (m)	Structural type	Structure Dimensions
1	325.00	Support structures of one side (reinforced earth retaining wall)	height from bottom of foundation to crown: 2.15m-4.50m
2	132.00	Support structures of one side (reinforced earth retaining wall)	height from bottom of foundation to crown: 1.75m-7.25m
3	357.00	closed road cutting (U-shape groove structure)	inside width: 12.75m; height from bottom of foundation to crown: 3.5m-7.0m
4	582.00	closed road cutting (U-shape groove structure)	inside width: 12.75m; height from bottom of foundation to crown: 3.5m-7.0m

PRICE

The price for preparation of the documentation according to description given in the RFP Document, without value added tax, is:

1. Railway Bridge Design	**540,000 €**
2. Road Design	
2.1. Roads	**380,000 €**
2.2. Underpass or overpass	**630,000 €**
2.3. Retaining walls	**115,000 €**
3. Supporting Structures Design	**85,000 €**
TOTAL (1+2+3)	**1 750 000 €**

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TERMS AND METHOD OF PAYMENT

Precise terms and method of payment will be defined in the Contract.

DEADLINE

Deadline for execution of the Preliminary works and preparation of the Building Permit Design (PGD) with technical verification is 3 months after the date of contract signing and receiving the final report from the Republic Reviewing Commission.

Deadline for preparation of the Detailed Design is 3 months after the date of obtaining the Building permit.

DESIGN BASIS AND REQUIREMENTS FOR PREPARATION OF THE DOCUMENTATION

Design basis for preparation of the documentation are:

- Geotechical data
- Survey plan
- Cadastral plans
- Revised Preliminary design
- Terms of Reference
- Requirements of the relevant authorities
- Location requirements
- Building permit

DOCUMENTATION QUALITY

The design documentation will be prepared in accordance with the applicable laws, regulations, codes, standards and design practice.

The design documentation will be prepared by Vs Infra Design and consortium partners:

- NEO AERODROMES ENGINEERING DOO
- K BRIDGE DESIGN DOO
- BEOEXPERT DESIGN DOO,

These companies have all the necessary licenses for this type of jobs, and VS Infra Design is also in procedure of obtaining a big rail and road license. Reference documentation will be provided as an attachment to this offer.

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Complete documentation will be prepared using the computer programs Word, Excel, AutoCAD and other programs for which the VS Infra Design and consortium partners has a license or ownership.

DELIVERY OF DOCUMENTATION

The documentation will be delivered in digital form as follows:

Building Permit Design (PGD):

- 2 digital copies

Detailed Design:

- 3 digital copies

DIRECTOR

VS INFRA DESIGN DOO BEOGRAD - NOVI BEOGRAD

Vidosav Stevanović, Grad. Civil Eng.